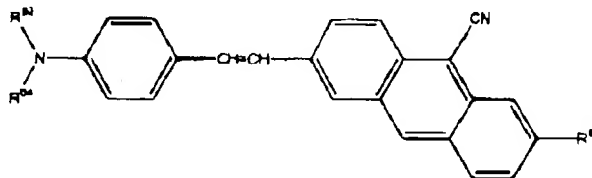


(wherein, in the general formula (26) above, R^{81} represents is selected from the group consisting of a saturated or unsaturated hydrocarbon group having 1 to 6 carbons, and or an aryl group which may have a substituent; and R^{82} represents is selected from the group consisting of a hydrogen atom, a saturated or unsaturated hydrocarbon group having 1 to 6 carbons, or and an aryl group which may have a substituent;);

wherein G general formula (27) has the formula:

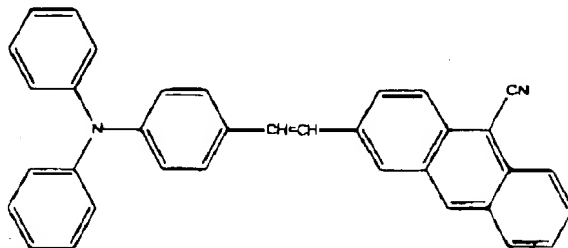


(wherein, in the general formula (27) above, R^{83} and R^{84} each represent are separately selected from the group consisting of a saturated or unsaturated hydrocarbon group having 1 to 6 carbons, or and an aryl group which may have a substituent; and R^{85} represents is selected from the group consisting of a hydrogen atom, a saturated or unsaturated hydrocarbon group having 1 to 6 carbons, or and an aryl group which may have a substituent;).

claim 8
def 4/26/04

9. (currently amended) An aminostyrylanthracene compound as defined in according to Claim 6, which wherein said compound is represented by the following structural formula (28)-1, (28)-2, (28)-3, (28)-4, (28)-5, (28)-6, (28)-7, (28)-8, (28)-9, (28)-10, (28)-11, or (28)-12 a formula selected from the group consisting of structural formula 28-1, structural formula 28-2, structural formula 28-3, structural formula 28-4, structural formula 28-5, structural formula 28-6, structural formula 28-7, structural formula 28-8, structural formula 28-9, structural formula 28-10, structural formula 28-11, and structural formula 28-12;

wherein S structural formula (28)-1 has the formula:



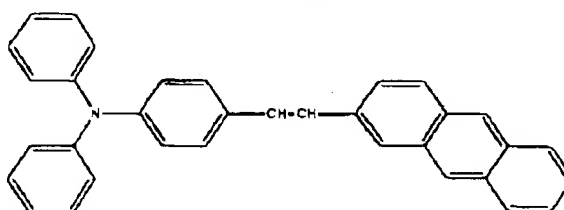
wherein S structural formula (28)-2 has the formula:

Claim 12
dsf
4/26/04

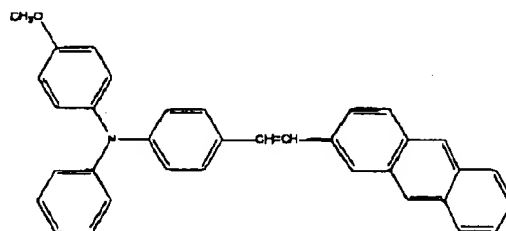
carbons, ~~or~~ and an aryl group which may have a substituent; and R^{102} ~~represents~~ is selected from the group consisting of a hydrogen atom, a saturated or unsaturated hydrocarbon group having 1 to 6 carbons, ~~or~~ and an aryl group which may have a substituent.)~~X~~ •

13. (currently amended) An aminostyrylanthracene compound ~~as defined in~~ according to Claim 10, which wherein said compound is represented by the following structural formula (37)-1, (37)-2, (37)-3, (37)-4, (37)-5, (37)-6, (37)-7, (37)-8, (37)-9, (37)-10, (37)-11, or (37)-12; a formula selected from the group consisting of structural formula 37-1, structural formula 37-2, structural formula 37-3, structural formula 37-4, structural formula 37-5, structural formula 37-6, structural formula 37-7, structural formula 37-8, structural formula 37-9, structural formula 37-10, structural formula 37-11, and structural formula 37-12;

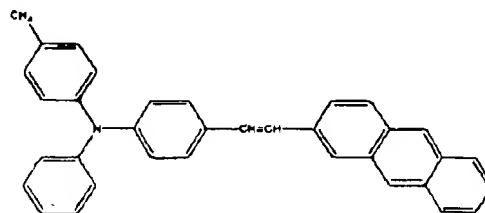
wherein Sstructural formula (37)-1 has the formula:



wherein Sstructural formula (37)-2 has the formula:

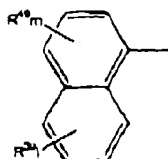


wherein Sstructural formula (37)-3 has the formula:

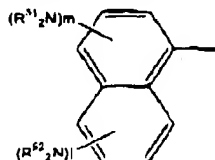


wherein Sstructural formula (37)-4 has the formula:

wherein General formula (10) has the formula:

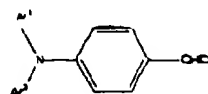


wherein General formula (11) has the formula:

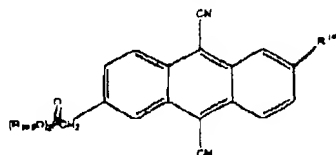


(wherein, in the general formulas (6), (7), (8), (9), (10), and (11) above, R^{44} , R^{45} , and R^{46} each represent are separately selected from a group consisting of a saturated or unsaturated hydrocarbon group having one or more carbons, or and a fluoroalkyl group; R^{47} , R^{48} , R^{49} , R^{50} , R^{51} , and R^{52} are identical or different groups, each representing separately selected from a group consisting of a saturated or unsaturated hydrocarbon group having one or more carbons, or and a fluoroalkyl group; n is an integer of 0 to 5; m is an integer of 0 to 3; and 1 is an integer of 0 to 3); and R^{43} represents is selected from the group consisting of a hydrogen atom, a saturated or unsaturated hydrocarbon group having one or more carbons, or and an aryl group which may have a substituent;

wherein said compound is obtained by condensing a 4-(N,N-diarylamino)benzaldehyde represented by having a the following general formula (38): with a phosphonic ester represented by the following general formula (39) or a phosphonium salt represented by the following general formula (40):



with a phosphonic ester having a general formula 39:



or, in the alternative, a phosphonium salt having a general formula 40:

general formula 7, general formula 8, general formula 9, general formula 10 and general formula 11;

wherein General formula (6) has the formula:



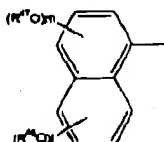
wherein General formula (7) has the formula:



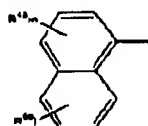
wherein General formula (8) has the formula:



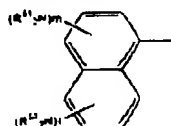
wherein General formula (9) has the formula:



wherein General formula (10) has the formula:



wherein General formula (11) has the formula:

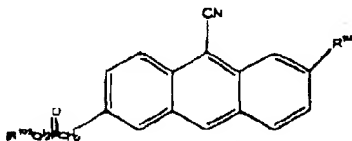


(wherein, in the general formulas (6), (7), (8), (9), (10), and (11) above, R^{44} , R^{45} , and R^{46} each represent are separately selected from the group consisting of a saturated or unsaturated hydrocarbon groups having one or more carbons, and ~~or~~ a fluoroalkyl group; R^{47} , R^{48} , R^{49} , R^{50} , R^{51} , and R^{52} are identical or different groups; ~~each representing separately selected from the~~ group consisting of a saturated or unsaturated hydrocarbon group having one or more carbons, ~~or~~ and a fluoroalkyl group; n is an integer of 0 to 5; m is an integer of 0 to 3; and l is an integer of 0 to 3; and R^{69} ~~represents is selected from the group consisting of~~ a hydrogen atom, a saturated or unsaturated hydrocarbon group, ~~and or~~ an aryl group which may have a substituent);

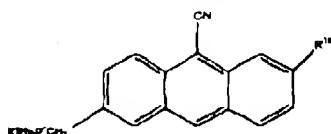
claim 21
def
4/26/04

separately selected from the group consisting of a saturated or unsaturated hydrocarbon group having one or more carbons, and a fluoroalkyl group; n is an integer of 0 to 5; m is an integer of 0 to 3; l is an integer of 0 to 3;

with a phosphonic ester having a general formula 39;



or, in the alternative, a phosphonium salt having a general formula 40:



(wherein, in the general formulas (38), (41), and (42) above, Ar¹, Ar², R¹⁰⁸, and X are defined as above.); and R¹⁰⁸ is selected from the group consisting of R⁵, R¹⁶, R²⁵, and R⁴², and X is a halogen atom.

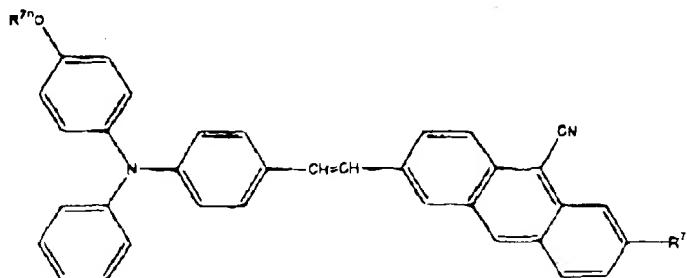
claim 21
def
4/26/04

22. (currently amended) A process for producing an aminostyrylanthracene compound as defined in according to Claim 21, wherein R⁴⁴, R⁴⁵, R⁴⁶, R⁴⁷, R⁴⁸, R⁴⁹, R⁵⁰, R⁵¹, and R⁵² each represent a ~~are~~-groups having 1 to 6 carbons.

claim 23

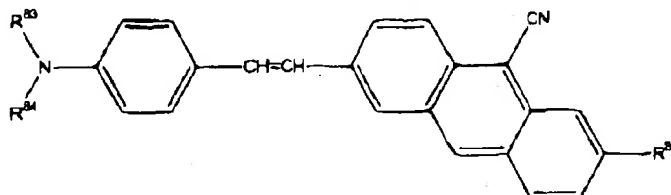
23. (currently amended) A process for producing an aminostyrylanthracene compound as defined in according to Claim 21, wherein said process gives an aminostyrylanthracene compound represented by the following general formula (21), (22), (23), (24), (25), (26), or (27); a formula selected from the group consisting of general formula 21, general formula 22, general formula 23, general formula 24, general formula 25, general formula 26, and general formula 27;

wherein General formula (21) has the formula;



group which may have a substituent; and R^{A2} ~~represents~~ is selected from the group consisting of a hydrogen atom, a saturated or unsaturated hydrocarbon group having 1 to 6 carbons, ~~or~~ and an aryl group which may have a substituent-;

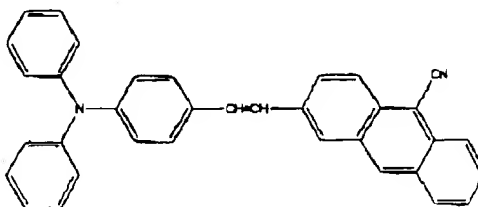
wherein General formula (27) has the formula:



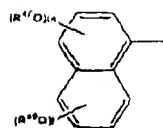
(~~wherein, in the general formula (27) above, R^{A3} and R^{A4} each represent~~ are separately selected from the group consisting of a saturated or unsaturated hydrocarbon group having 1 to 6 carbons, or and an aryl group which may have a substituent; and R^{A5} represents is selected from the group consisting of a hydrogen atom, a saturated or unsaturated hydrocarbon group having 1 to 6 carbons, or and an aryl group which may have a substituent-.

claim 23
def
4/26/04 24. (currently amended) A process for producing an aminostyrylanthracene compound ~~as defined in according to Claim 21; wherein said process gives an aminostyrylanthracene compound represented by the following structural formula (28) 1, (28) 2, (28) 3, (28) 4, (28) 5, (28) 6, (28) 7, (28) 8, (28) 9, (28) 10, (28) 11, or (28) 12.~~ a formula selected from the group consisting of structural formula 28-1, structural formula 28-2, structural formula 28-3, structural formula 28-4, structural formula 28-5, structural formula 28-6, structural formula 28-7, structural formula 28-8, structural formula 28-9, structural formula 28-10, structural formula 28-11, and structural formula 28-12;

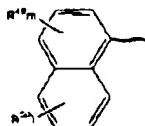
wherein Sstructural formula (28)-1 has the formula:



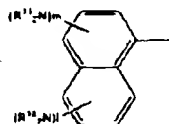
wherein Sstructural formula (28)-2 has the formula:



wherein General formula (10) has the formula:

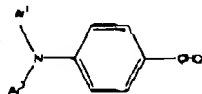


wherein General formula (11) has the formula:



(wherein, in the general formulas (6), (7), (8), (9), (10), and (11) above, R^{44} , R^{45} , and R^{46} each represent are separately selected from the group consisting of a saturated or unsaturated hydrocarbon groups having one or more carbons, and or a fluoroalkyl group; R^{47} , R^{48} , R^{49} , R^{50} , R^{51} , and R^{52} are identical or different groups, each representing separately selected from the group consisting of a saturated or unsaturated hydrocarbon group having one or more carbons, or and a fluoroalkyl group; n is an integer of 0 to 5; m is an integer of 0 to 3; and l is an integer of 0 to 3; and R^{86} represents is selected from the group consisting of a hydrogen atom, a saturated or unsaturated hydrocarbon group, and or an aryl group which may have a substituent;

wherein said compound is obtained by condensing 4-(N,N-diarylamino)benzaldehyde represented by the following having a general formula (38); with a phosphonic ester represented by the following general formula (41) or a phosphonium salt represented by the following general formula (42). General formula (38):

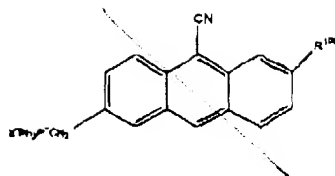


wherein Ar^1 and Ar^2 are identical or different aryl groups which may have a substituent selected from the group consisting of general formula 6, general formula 7, general formula 8, general formula 9, general formula 10, and general formula 11;

wherein general formula 6 has the formula:



def
4/26/04
clm 25



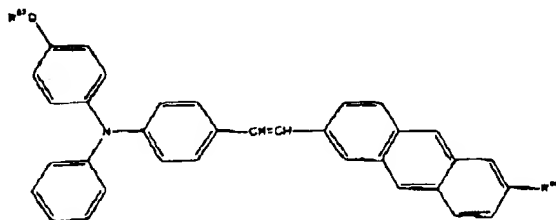
4/26/04
claim 25

(wherein, in the general formulas (38), (41, and (42) above, Ar^1 , Ar^2 , R^{105} , and X are defined as above; and R^{108} is selected from the group consisting of R^5 , R^{16} , R^{25} , and R^{42} ; and X is a halogen atom.

26. (currently amended) A process for producing an aminostyrylanthracene compound ~~as defined in~~ according to Claim 25; wherein R^{44} , R^{45} , R^{46} , R^{47} , R^{48} , R^{49} , R^{50} , R^{51} and R^{52} are groups having 1 to 6 carbons.

claim 27

27. (currently amended) A process for producing an aminostyrylanthracene compound ~~as defined in~~ according to Claim 25; wherein said process gives an aminostyrylanthracene compound represented by ~~the following general formula (30), (31), (32), (33), (34), (35), or (36)~~ a formula selected from the group consisting of general formula 30, general formula 31, general formula 32, general formula 33, general formula 34, general formula 35, and general formula 36;
wherein General formula (30) has the formula:

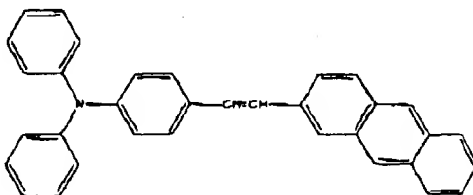


(wherein, in the general formula (30) above, R^{87} ~~represents~~ is selected from the group consisting of a saturated or unsaturated hydrocarbon group having 1 to 6 carbons, and ~~or~~ an aryl group which may have a substituent; and R^{88} ~~represents~~ is selected from the group consisting of a hydrogen atom, a saturated or unsaturated hydrocarbon group having 1 to 6 carbons, ~~or and~~ an aryl group which may have a substituent;

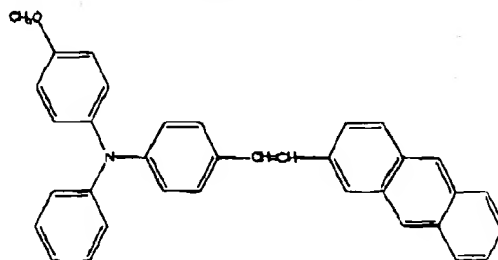
wherein General formula (31) has the formula:

4/26/04

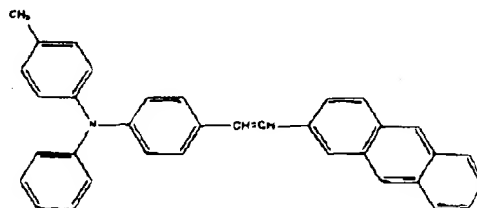
wherein structural formula (37)-1 has the formula:



wherein Sstructural formula (37)-2 has the formula:



wherein Sstructural formula (37)-3 has the formula:



wherein Sstructural formula (37)-4 has the formula: